

Lisbon, 06 November 2007

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SafeSeaNet monthly report October 2007

1. Background information

The purpose of the report is to produce on a monthly basis, specific measurable elements and figures giving a full, clear and current picture of the SafeSeaNet situation. The report may be further analysed by EMSA, the Commission and the MS for extracting conclusions on the usability of SSN system.

As announced during the SSN 8 workshop (Lisbon 24 and 25 October 2007), the V1.9 production site will be deployed on 4th of December 2007. The procedures the Member States have to follow in order to connect to the new production site have been distributed to the Member States during SSN 8 (paragr. 6.3 of document SSN 8/7/3).

2. Type of information

All below information was produced through the SSN application with the support of the ICT pillar.

2.1. Notifications

The table 1 gives a picture of the notifications provided by Member States to SSN per message type and interface.

Table 1 - Notifications SSN (Oct.2007)

COUNTRY	INTERFACE	SHIP		PORT	HAZMAT	ALERT	SECURITY	TOTAL
		AIS	MRS					
Belgium	XML	150,066		4,297	761			155,124
Denmark	XML	298,878		8	612			299,498
Finland	XML			8,718	539			9,257
Germany	XML	3			1,951			1,954
Greece	Web						2	2
Ireland	XML				70	1		71
Italy	XML		47,741	505	230			48,476
Lithuania	XML	162		3,858	208			4,228
Malta	XML			56				56
Netherlands	Web			212	108	1		321
Netherlands	XML	338,728		12,501	2,548			353,777
Norway	XML	434,597		1,720	791			437,108
Poland	XML	97,632		7,617	2,245		5,824	113,318
Portugal	Web			72				72
Portugal	XML			958	184			1,142
Romania	Web			872	87	2		961
Slovenia	Web		126	255	4			385
Spain	XML			14,314	595			14,909
Sweden	XML	7,931		8,181	656			16,768
TOTAL		1,327,997	47,867	64,144	11,589	4	5,826	1,457,427

EMSA comment

Web interface is being used to provide notifications by some LCAs from The Netherlands, Portugal, Romania and Slovenia. In October Portugal has joined SSN with XML Interface providing Port and Hazmat Notifications but keeps on using the web interface for one single port (Funchal, Madeira Island) . Slovenia and Romania continue using the web interface for providing notifications to SSN but are planning to introduce XML interfaces. Twelve countries introduced XML interfaces and are using it actively. Malta has joined SafeSeaNet with XML interface.

Conclusions of the above table:

There are MS not sending notifications regularly such as Bulgaria, Cyprus, Estonia, France, Iceland, Greece, Latvia and the United Kingdom. The reasons are:

- **Bulgaria:** They have expressed their intention to start their national development (XML interface). There is a procurement activity on-going.
- **Cyprus:** the first SSN contract has been concluded in July'07.
- **Estonia:** no action reported.
- **France:** Is currently testing connection of the national system with SSN version 1.9
- **Iceland:** commissioning tests passed (August 07). Work in progress to join production site. Iceland will join the production site with minimum set of information provided only in notifications.
- **Greece:** still in testing.
- **Latvia:** is under tendering procedure to join SSN.
- **Romania:** On July Romania requested to enter into production through the Web interface and is using the interface actively since then providing Port and Hazmat Notifications. Romania notified their intention to start their national development (XML interface).
- **The United Kingdom:** they are currently finalising their own tests and plan to start the commissioning test soon.

Figure 1 – Notifications per Type

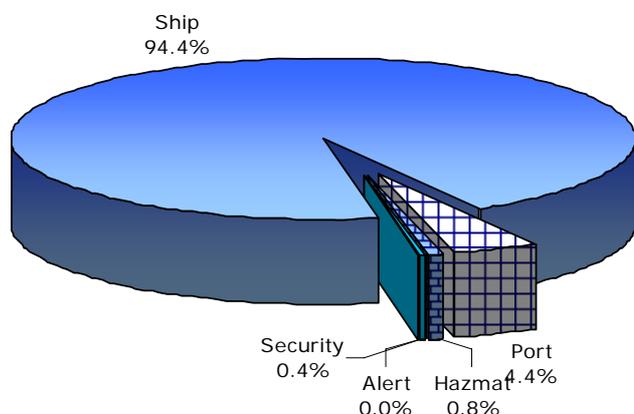
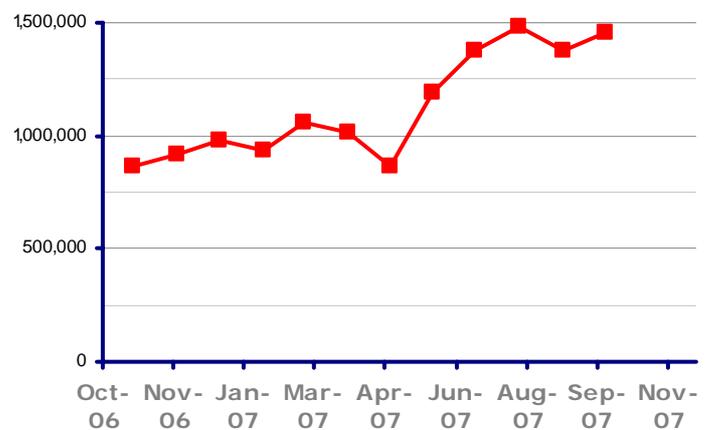


Figure 2 –Notifications: Nov.06/Oct.07



2.2. Requests

The table 2 gives a picture of the requests made by Member States to SSN per message type and interface.

Table 2 - Requests SSN (Oct.2007)

COUNTRY	INTERFACE	SHIP	PORT	HAZMAT	ALERT	SECURITY	TOTAL
Belgium	Web	27	1			2	30
Denmark	Web	12		4			16
Denmark	XML		10	17	10		37
Finland	Web	1					1
Germany	XML			1			1
Greece	Web	22		7		2	31
Italy	Web	15		2			17
Italy	XML		2	5			7
Lithuania	Web	5	3				8
Malta	Web	3	7				10
Netherlands	Web	414	16	7			437
Norway	Web	9	2	2			13
Norway	XML		80	64,170	1		64,251
Poland	Web	2	1	3			6
Poland	XML	4	10	2		1	17
Portugal	Web	77					77
Romania	Web	1,227	2	1			1,230
Slovenia	Web	456	4				460
Spain	Web	80	17	1			98
Sweden	Web	5		1		1	7
European Commission	Web	299	124	84		3	510
TOTAL		2,658	279	64,307	11	9	67,264

EMSA comment

The web interface is most commonly used by the Member States to request information. Norway, Germany, Denmark, Italy and Poland are using their Xml interface for the request functionality. Number of information requested is growing. Most popular requests are for HAZMAT and Ship Notifications.

Figure 3 – Requests per Type

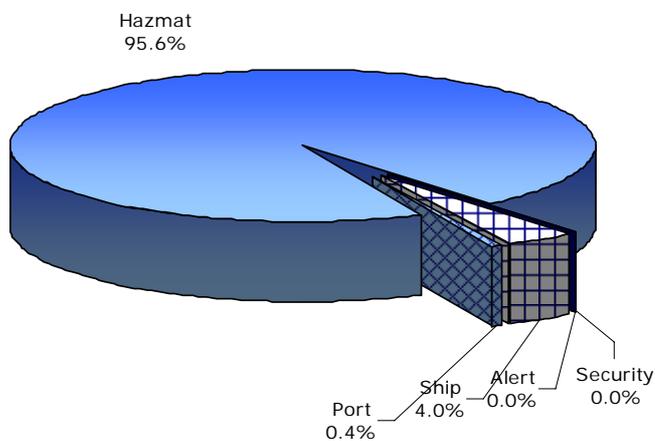
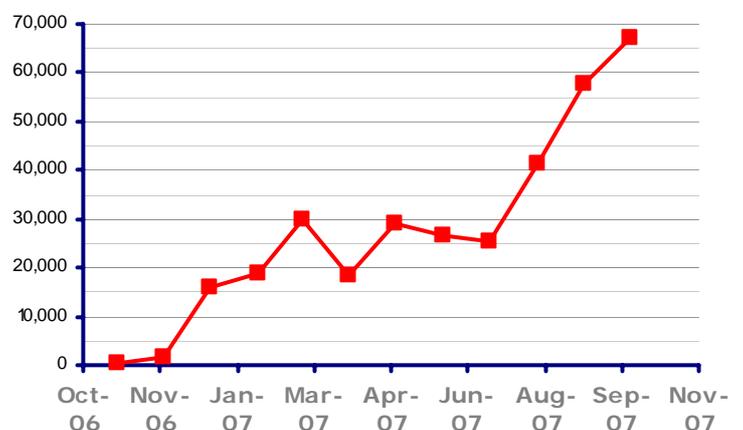


Figure 4 – Requests: Nov.06/Oct.07



2.3. LOCODEs per MS and the number of notification (port and HAZMAT) associated with these LOCODEs

In this chapter the notifications sent to SSN are analysed according to the next port of call LOCODE mentioned in the Port and Hazmat notifications. The information is grouped by three categories, European ports, non European ports and unknown ports. The top 10 EU ports are also displayed in the table.

Table 3 – Port and Hazmat Notifications per LOCODE (Oct.2007)

COUNTRY	LOCODE	PORT	HAZMAT	TOTAL	
EU Top 10 Ports					
NETHERLANDS	NLR TM	Rotterdam	7,459	2,540	9,999
LITHUANIA	LTK LJ	Klaipeda	3,845	252	4,097
SPAIN	ESL PA	Las Palmas	2,882	378	3,260
POLAND	PLG DY	Gdynia	2,135	906	3,041
FINLAND	FIHEL	Helsinki	2,419	228	2,647
NETHERLANDS	NLV LI	Vlissingen	2,309	24	2,333
POLAND	PLS WI	Swinoujscie	1,695	607	2,302
BELGIUM	BEZ EE	Zeebrugge	2,227	10	2,237
POLAND	PLN OW	Nowy Port	1,757	235	1,992
SPAIN	ESB CN	Barcelona	1,813	98	1,911
EU Ports			62,819	9,742	72,561
Non EU Ports			0	280	280
Port unknown		UNKWN	1,273	1,300	2,573

EMSA comment

The table shows the proportion of Port and HAZMAT notifications by LOCODE. However as the next port of call is not mandatory information in HAZMAT (according to the current XML Reference Guide), if the vessel is bound for a non EU port, "port unknown" has a higher proportion. In comparison with previous months the proportion of "UNKWN" LOCODE in Port Notifications decreased due to the follow-up actions initiated by the MSS and follow-up actions on the national level.

2.4. Availability of the SSN EIS (H/W, S/W, communications etc) and the response time (diagram)

During the reporting period, the average response time of SSN in production environment, was between **1.50 and 1.70** seconds.

The standard response time and the minimum acceptable response time have yet to be defined. After definition of the above, information about the specific periods (date/time) when degradation of the system took place (response time below the minimum acceptable response time) will be produced. This data can only be gathered using the resources available at the Data Centre.

To supplement the limited information currently provided through the "Mirella" web site, EMSA developed a test tool. This test probe consists, in fact, on the test client tool available since last year, programmed to send a message to the production site every ten minutes. The results are presented in the next table and only refer to the production environment. Each record on the table represents a failed attempt to communicate with SSN.

Table 4 – SSN Availability – Periods of Interruption (Oct.2007)

MDAY	MONTH	YEAR	DATE	Period of Interruption (min.)	FROM	TO
19	Oct	2007	4	30	19/10/2007 21:20	19/10/2007 22:50
20	Oct	2007	3	20	20/10/2007 01:30	20/10/2007 01:50
27	Oct	2007	3	20	27/10/2007 08:30	27/10/2007 08:50

EMSA comment

Care should be taken when interpreting this information, because the results may be biased due to the connectivity conditions between DIGIT and EMSA. Furthermore, this information only tells that SSN is responding to a simple message, which does not even assure for SSN full operational capability (meaning that this does not represent that SSN responds to the request).

2.5. Error Analysis

The table in this chapter shows the number not accepted notifications in SSN by type of error and by Member State. N/R stands for user not identifiable.

Table 5 – Errors Analysis (Oct.2007)

COUNTRY	AccessDenied	InvalidFormat	ServerError	Total Of TOTAL
Belgium	5	9	45	59
Denmark	1	423	52	476
Finland			5	5
Germany			2	2
Italy	1	14	50	65
Lithuania		635	4	639
N/R	588	165,493	61	166,142
Netherlands		169	100	269
Norway	1	372	105	478
Poland	9	546	226	781
Portugal	33	8	1	42
Romania	39	41	5	85
Spain	11			11
Sweden	1	5	11	17
Total	689	167,715	667	169,071

EMSA comment

Message error type *Invalid Format* still has the higher occurrence but the origin has been identified. EMSA and the SSN group expect that this figures will decrease significantly soon.

Figure 5 – Errors per Type

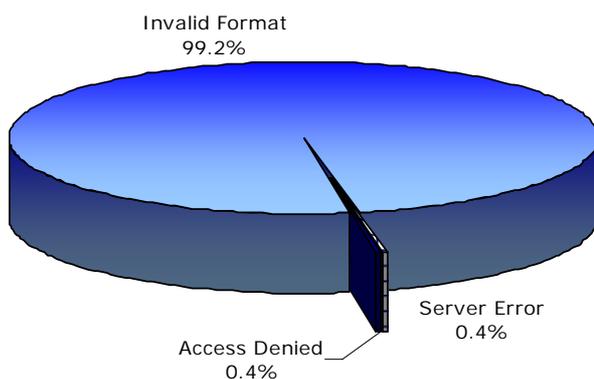
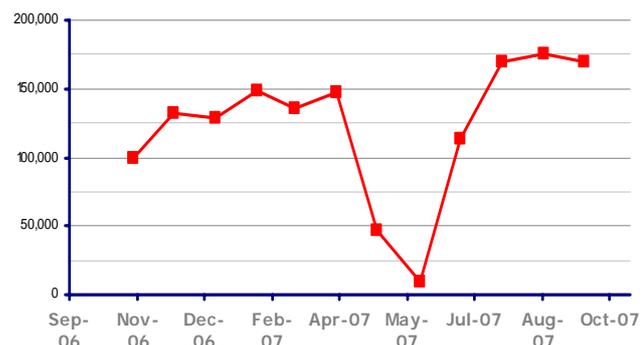


Figure 6 – Errors: Nov.06/Oct.07



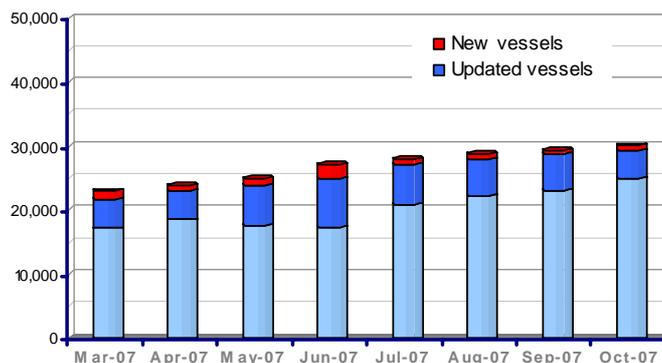
2.6. Ship database and new entrees during the previous month

The total lists of ships recorded in SafeSeaNet database with their IMO number, MMSI, ship's name and call sign has now a total of 30,088 records.

Table 6 – Ship database

	New vessels	Updated vessels	TOTAL	var (%)
Feb-07	554	5,025	22,306	2.55%
Mar-07	1,256	4,553	23,008	3.15%
Apr-07	842	4,487	23,850	3.66%
May-07	1,096	6,260	24,946	4.60%
Jun-07	2,274	7,517	27,220	9.12%
Jul-07	744	6,407	27,964	2.73%
Aug-07	805	5,825	28,769	2.88%
Sep-07	597	5,729	29,366	2.08%
Oct-07	722	4,486	30,088	2.46%

Figure 7 – Ship database



EMSA comment

During last month 722 new vessels were recorded and 4,486 vessels updated, in a total of 5,108 records created/updated (average of 1277 records per week).

2.7. SSN Users

The table in this chapter gives a picture of the SSN registered users by Member State per associated role and interface.

Table 7 – SSN Users (Oct.2007)

COUNTRY	INTERFACE		ROLE TYPE										TOTAL
	Web	XML	ADM	ALL	NCA	MIN	POR	CST	PSC	OTH	PMoU	SAR	
Belgium	5	5	1		2		4	2	1				10
Czech Republic	2				1	1							2
Denmark	1	1			2								2
European Commis	9	2	5	5							1		11
Finland	27	1		1	2	1	3	18	2			1	28
Germany	1	1			2								2
Greece	1				1								1
Iceland		1			1								1
Ireland	1	1			2								2
Italy	1	1			2								2
Lithuania	9	1			1		2		6	1			10
Malta	2	3	1		3			1					5
Netherlands	17	5			3		11	2	4	1	1		22
Norway	5	2		1	6								7
Poland	1	1			2								2
Portugal	23	23			2		44						46
Romania	9				1		5	1		2			9
Slovenia	4				1			1	1	1			4
Spain	55	1			2	1		23	30				56
Sweden	1	1			2								2
TOTAL	174	50	7	7	38	3	69	48	44	5	2	1	224

EMSA comment

From the figures above, results that most Member States have not yet introduced in SSN all their users, namely their LCAs (PORT, PSC and CST). However it is worth noting that all the SSN users are not visible in the current version of SafeSeaNet because the same userID may be used by several persons. The next version of SSN v1.9 will allow creating several users per authority giving visibility to all participants. Finland has introduced new CST and SAR users and EMSA created NCA users for Malta.

3. Member States XML status

This table gives the full picture of the situation of each MS regarding the XML status (automatic connection for the message exchange):

Updated 05 th November		Automatic SSN Notifications (XML interface)			
		Port	Hazma	Ship	Alert
BE	Belgium	yes	yes	yes	no
BU	Bulgaria	no	no	no	no
CY	Cyprus	no	no	no	no
DK	Denmark	yes	yes	yes	no
EE	Estonia	no	no	no	no
FI	Finland	yes	yes	no	no
FR	France	com	com	com	com
DE	Germany	no	yes	no	no
GR	Greece	no	no	no	no
IC	Iceland	com	com	com	no
IE	Ireland	com	com	com	com
IT	Italy	yes	yes	yes	yes
LV	Latvia	no	no	no	no
LT	Lithuania	yes	yes	no	no
MT	Malta	yes	com	com	com
NL	Netherlands	yes	yes	yes	no*
NO	Norway	yes	yes	yes	no
PL	Poland	yes	yes	yes	yes
PT	Portugal	yes	yes	no	no
RO	Romania*	no	no	no	no
SI	Slovenia*	no	no	no	no
ES	Spain	yes	yes	no	no
SE	Sweden	yes	yes	yes	no
GB	United Kingdom	no	no	no	no

Yes: means in production;

Com: means commissioned, test successfully completed but not in production;

No: means under testing or activities as previously referred.